IN THE CLAIMS

- 1 (Original). A method comprising:

 machining a hole on an integrated circuit with a scanning probe system; and
 performing a circuit edit through the hole formed by said system.
- 2 (Original). The method of claim 1 including machining said hole on the backside of the integrated circuit.
- 3 (Original). The method of claim 2 including machining a hole as a series of progressively smaller trenches through the backside of a silicon wafer.
- 4 (Original). The method of claim 1 including providing an electrical connection between said integrated circuit and said tool.
- 5 (Original). The method of claim 3 including detecting an open circuit when the tool reaches an isolation region.
- 6 (Original). The method of claim 3 including detecting a short circuit when the tool reaches a metallization.
- 7 (Original). The method of claim 1 including covering a portion of said hole with an insulating layer.
- 8 (Original). The method of claim 7 including covering said hole with an insulating layer before exposing a metallization.
- 9 (Original). The method of claim 1 including spring biasing a cantilever of an atomic force microscopy tool against an integrated circuit.

10 (Original). A method comprising:

forming a first trench having sidewalls and a bottom in a semiconductor structure using a scanning probe system;

forming a second trench through said bottom, said second trench having sidewalls that are spaced more closely than the sidewalls of said first trench; and using said trench to perform a circuit edit.

- 11 (Original). The method of claim 10 including biasing an atomic force microscopy tip against the semiconductor surface to move atomic layers to form said trenches.
- 12 (Original). The method of claim 11 providing an electrical connection between said semiconductor structure and said tip.
- 13 (Original). The method of claim 12 including detecting an open circuit when said tip reaches an isolation region in said semiconductor structure.
- 14 (Original). The method of claim 12 including detecting a short circuit once the tip reaches a metallization in said semiconductor structure.
- 15 (Original). The method of claim 10 including covering said first and second trenches with an insulating layer.
- 16 (Original). The method of claim 15 including covering said trenches with an insulating layer before exposing a metallization.
- 17 (Original). The method of claim 11 including spring biasing said tip against said structure using a cantilever.
- 18 (Original). The method of claim 17 including determining the position of said tip by reflecting a laser beam from said cantilever.

- 19 (Withdrawn). An atomic force microscopy tool comprising:
 - a cantilever to penetrate an integrated circuit;
 - a tip coupled to said cantilever; and
- a circuit including a voltage source coupled between said tip and an integrated circuit.
 - 20 (Withdrawn). The tool of claim 19 wherein said circuit includes an ammeter.
- 21 (Withdrawn). The tool of claim 19 wherein said circuit is connected to a metallization in said integrated circuit such that once the tip contacts said metallization, a short circuit is created.
- 22 (Withdrawn). The tool of claim 19 wherein an open circuit exists when said tool tip is electrically isolated from said metallization.